

**PI150BN  
PI150MN  
PI15024BN  
PI15024MN**



**velleman**  
**components**

**DC TO AC POWER INVERTER 150W  
DC/AC VERMOGENSINVERTER 150W  
INVERSEUR CC/CA 150W  
CONVERTIDOR CC/CA 150W  
WECHSELRICHTER DC/AC 150W**

**SOFT-START**



**ATTENTION – OPGELET – CUIDADO - ACHTUNG**



**OVERLOADING THIS DEVICE OR CONNECTING IT WITH AN INDUCTIVE LOAD (e.g. refrigerator, fan, drill) WILL DAMAGE IT AND AUTOMATICALLY VOID THE WARRANTY !!**

**HET TOESTEL ZAL WORDEN BESCHADIGD INDIEN U HET OVERBELAST OF ER EEN INDUCTIEVE BELASTING (vb. koelkast, boormachine, ventilator) OP AANSLUIT. DE GARANTIE VERVALT DAN AUTOMATISCH !!**

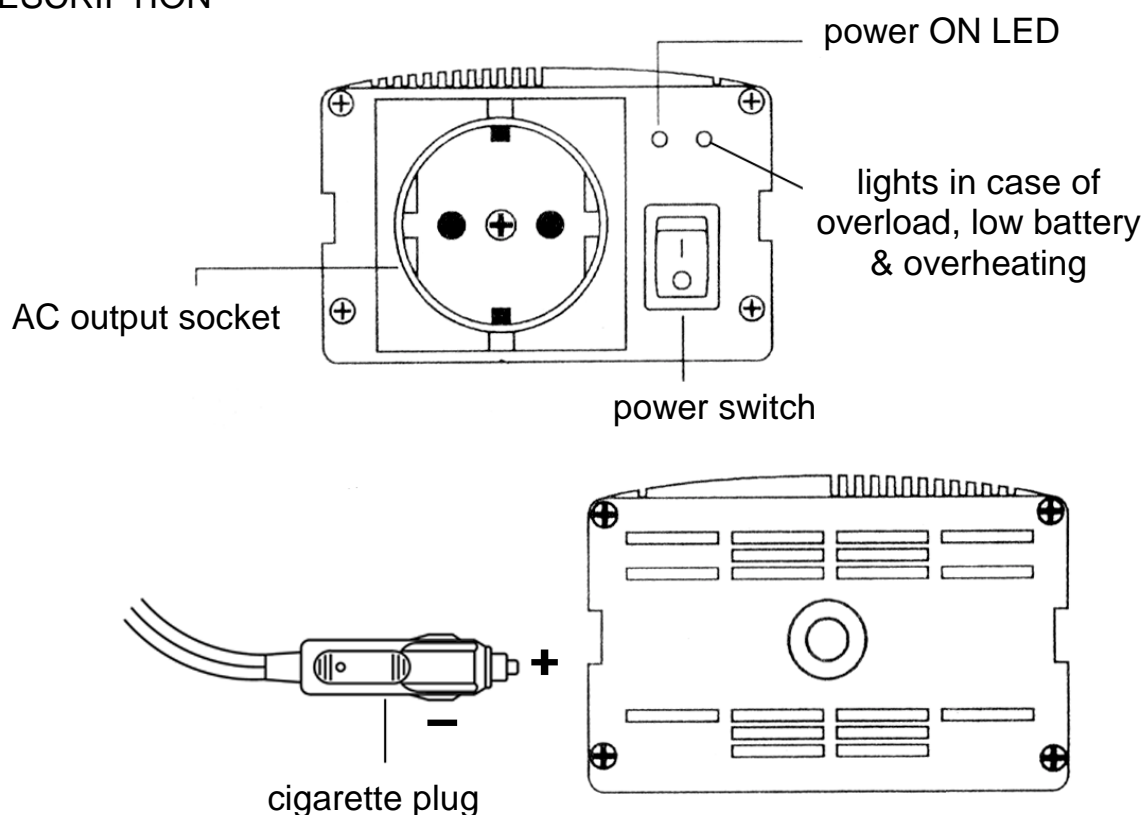
**LA SURCHARGE DE L'APPAREIL OU LA CONNEXION D'UNE CHARGE INDUCTIVE (p.ex. ventilateur, réfrigérateur, perceuse) ENDOMMAGERONT L'APPAREIL ET LA GARANTIE SERA INVALIDEE AUTOMATIQUEMENT !!**

**¡SOBRECARGAR EL APARATO O CONECTAR UNA CARGA INDUCTIVA (p.ej. ventiladores, refrigeradores, taladros) DAÑARÁN EL APARATO Y INVALIDARÁN SU GARANTÍA AUTOMÁTICAMENTE!**

**DIE GARANTIE ERLISCHT UND DER SPANNUNGSWANDLER KÖNNTE BESCHÄDIGT WERDEN, WENN SIE IHN ÜBERLASTEN ODER MIT EINER INDUKTIVEN LAST VERBINDEN (z.B. Kühlschrank, Lüfter, Bohrmaschine)!**

**User Manual  
Gebruikershandleiding  
Manuel d'utilisation  
Manual del usuario  
Bedienungsanleitung**

## 1. DESCRIPTION



## 2. CONNECTIONS

Connect the cigarette plug with the cigarette lighter socket of your car and connect the 220V plug of the appliance with the inverter.

## 3. FUSE

Please check the fuse in the cigarette plug if the blackout indicator is not lit during operation. Replace a blown fuse with an identical one. Please refer to "13. SPECIFICATIONS" on p. 5.

## 4. OUTPUT CAPACITY

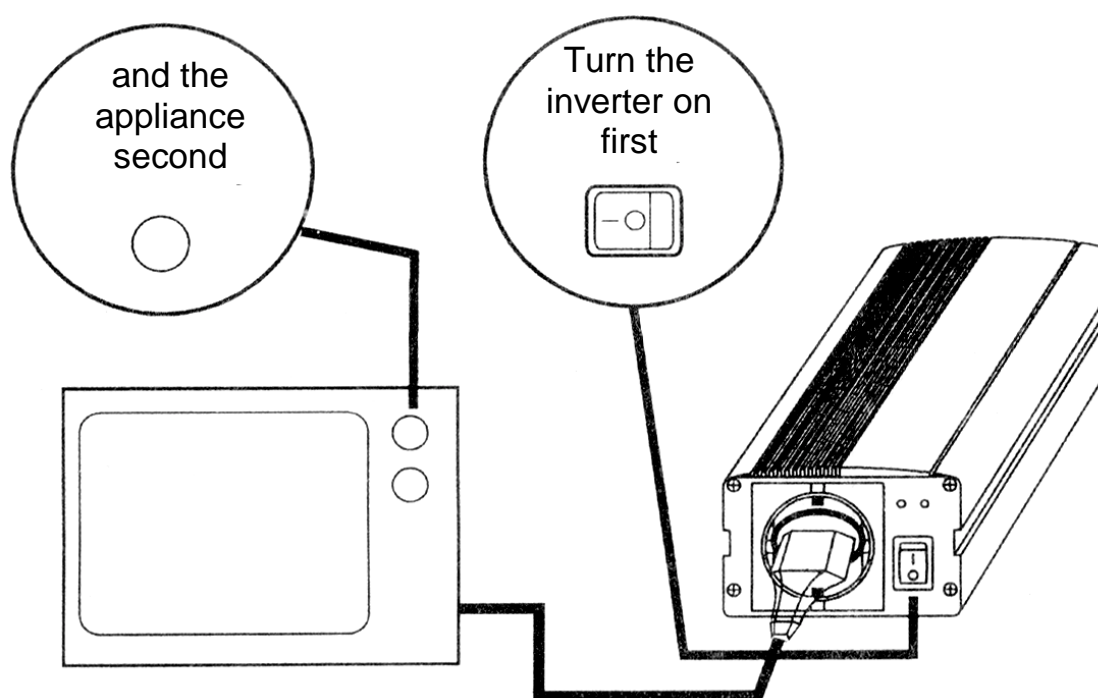
The inverter will switch off automatically if the total wattage of the electrical appliances exceeds the inverter's output capacity. This will also happen if the temperature of the inverter exceeds 55°C due to prolonged use.

## 5. OPERATION

Always activate the inverter before activating the appliance connected with the inverter.

The buzzer will sound when the battery voltage is very low, indicating that the inverter will be disconnected in a couple of minutes.

In case of overload, the inverter will automatically try to engage the soft-start mode until the user diminishes the load.



## 6. SPECIAL RECOMMENDATIONS

Unplug the AC inverter when not in use.

Unplug the AC inverter when starting the vehicle's motor.

If the AC inverter makes a beeping sound : switch off your appliance, unplug the inverter and restart your vehicle's engine. The beeping sound is simply the battery-low indication, warning you that the voltage of your battery is getting low. Your inverter will shut down automatically if you do not restart your engine and continue to use your inverter. This will leave your vehicle's battery at about 10.5VDC (12V-version) / 21VDC (24V-version), enabling you to start your engine and resume operation of the inverter. It also eliminates the possibility of being stranded with a dead battery.

To avoid over-discharging the battery, it is advisable to let your engine run for 10 to 20 minutes after every 2-3 hours of using the AC inverter. This allows your vehicle's battery to recharge.

Please remember to disconnect the AC inverter before connecting the battery charger in order to replenish your battery. Failure to disconnect the inverter prior to connecting a charger may result in an input spike that will damage the inverter. **CONNECTING THE INVERTER'S INPUT TO A BATTERY CHARGER WILL VOID THE WARRANTY AND MAY DAMAGE THE INVERTER.**

Make sure that the voltage never exceeds 15VDC (12V-version) or 30VDC (24V-version).

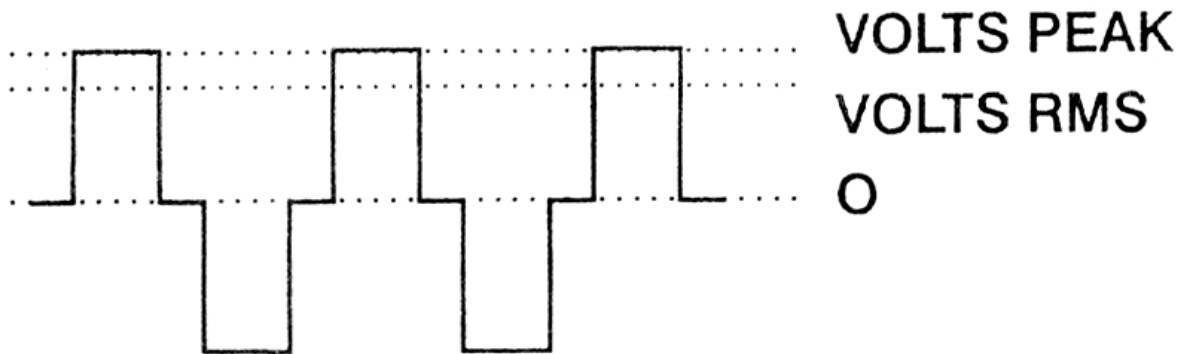
**CONNECTING THE INVERTER TO A DC POWER SOURCE SUPERIOR TO 15VDC (12V-version) or 30VDC (24V-version) WILL VOID THE WARRANTY AND MAY DAMAGE THE INVERTER. THE INVERTER WILL BE SHUT DOWN AUTOMATICALLY.**

## 7. ADDING EXTENSION CORDS

We recommend that the buyer refrain from using an extension cord between the DC power source and the inverter's DC input. Connecting an extension cord to the DC input will create a voltage drop which, in turn, entails reduced efficiency. Instead, we recommend using an extension cord to link the AC output and the AC appliance. You can use up to 100ft (30m) of high-quality extension cord. A longer cord may result in reduced power.

## 8. MEASURING AC VOLTAGES

The output wave of the AC inverter is a MODIFIED SINEWAVE. An AUTHENTIC RMS VOLT METER is required to measure the AC output voltage. Using any other type of voltage measuring device will result in an AC voltage reading that is up to 20 to 30V lower than the rated value. Only an authentic RMS voltmeter provides an accurate reading.



## 9. VENTILATION

**IMPORTANT !** Do not cover the device with e.g. a cloth and remove all objects within a 50cm radius.

These precautions are necessary to protect the device against overheating.

## 10. CAUTION

In case of trouble with the AC output, e.g. short circuit, overload, etc... the protection circuit will automatically cut off the output.

In such cases :

- (A) switch off the power at once
- (B) disconnect all devices
- (C) check the connected devices
- (D) you can use the devices again as soon as the problems have been solved

Store the inverter in the right environment :

- (A) well-ventilated
- (B) not exposed to direct sunlight or any other heat source
- (C) inaccessible to children
- (D) safe from water/moisture, oil or grease
- (E) safe from flammable substances

Connecting the inverter in the wrong way will void the warranty.

## 11. MAINTENANCE



Very little maintenance is required to keep your inverter operating smoothly. Clean the exterior of the device periodically using a damp cloth in order to prevent the accumulation of dust and dirt. Tighten the screws on the DC input terminals whenever you are cleaning the device.

## 12. REMARK

All specifications are typical at nominal input voltage, 50% load and 25°C unless otherwise noted. All specifications are subject to change without prior notice

**WARNING : DO NOT DISASSEMBLE THIS DEVICE AS DOING SO MAY CAUSE HAZARDOUS VOLTAGES !! RETURN THIS DEVICE TO THE DEALER IN CASE OF TROUBLE !!**

## 13. SPECIFICATIONS

DC input voltage	DC 10-15V <b>(12V)</b> // DC 20-30V <b>(24V)</b>
Output power	150W
Output power surge	450W
Battery-high shutdown	15.5 ± 0.5V <b>(12V)</b> // 30 ± 1V <b>(24V)</b>
Battery-low alarm	10.5 ± 0.5V <b>(12V)</b> // 21 ± 1V <b>(24V)</b>
Battery-low shutdown	10 ± 0.5V <b>(12V)</b> // 20 ± 1V <b>(24V)</b>
Short circuit protection	yes
No-load current	< 0.3A
Alarm and thermal shutdown	60°C ± 5°C
DC input fuse	20A <b>(12V)</b> // 10A <b>(24V)</b>
Dimensions (L x W x H)	165 x 91 x 58mm
Net weight	0.85kg
AC output voltage	230V
Frequency	55Hz
AC output socket 	PI150MN // PI15024MN
AC output socket 	PI150BN // PI15024BN